

AMENDMENTS TO THE CLAIMS

1. (Cancelled)

2. (Cancelled)

3. (Currently Amended) ~~The dielectrophoresis separator apparatus of claim 1 including~~ A dielectrophoresis separator apparatus for separating target materials from other materials in a flow of said target materials and said other materials, comprising:

a first trap adapted to receive said target materials and said other materials,

said first trap having electrodes arranged generally parallel to said flow of said target materials and said other materials,

a second trap adapted to receive said target materials and said other materials,

said second trap having electrodes arranged generally transverse to said flow of said target materials and said other materials, and

a source of direct current operatively connected to said electrodes arranged generally parallel to said flow of said target materials and said other materials in said first trap.

4. (Currently Amended) The dielectrophoresis separator apparatus of claim 1 ~~including~~ a source of alternating voltage operatively connected to said electrodes arranged generally transverse to said flow of said target materials and said other materials in said second trap.

5. (Currently Amended) ~~The dielectrophoresis separator apparatus of claim 1 including~~ A dielectrophoresis separator apparatus for separating target materials from other materials in a flow of said target materials and said other materials, comprising:

a first trap adapted to receive said target materials and said other materials,

said first trap having electrodes arranged generally parallel to said flow of said target materials and said other materials,

a second trap adapted to receive said target materials and said other materials,

said second trap having electrodes arranged generally transverse to said flow of said target materials and said other materials, and

a source of direct current operatively connected to said electrodes arranged generally transverse to said flow of said target materials and said other materials in said second trap.

6. (Currently Amended) The dielectrophoresis separator apparatus of claim 1 including a source of alternating voltage operatively connected to said electrodes arranged generally parallel to said flow of said target materials ~~and said other materials in said first trap and a source of direct current operatively connected to said electrodes arranged generally transverse to said flow of said target materials and said other materials in said second trap.~~

7. (Cancelled)

8. (Cancelled)

9. (Cancelled)

10. (Cancelled)

11. (Cancelled)

12. (Cancelled)

13. (Cancelled)

14. (Currently Amended) ~~The dielectrophoresis separation method of claim 12 including~~ A dielectrophoresis separation method for separating target

materials from other materials from a flow of said target materials and said other materials, comprising the steps of:

flowing said target materials and said other materials through
a first trap,

energizing in said first trap electrodes arranged generally parallel to
said flow of said target materials and said other materials by energizing a
source of direct current operatively connected to said electrodes arranged
generally parallel to said flow of said target materials and said other materials in
said first trap,

flowing said target materials and said other materials through a
second trap, and

energizing in said second trap electrodes arranged generally
transverse to said flow of said target materials and said other materials.

15. (Currently Amended) The dielectrophoresis separation method of
claim 12 ~~14~~ including ~~energizing a source of direct current operatively connected~~
~~to said electrodes arranged generally parallel to said flow of said target materials~~
~~and said other materials in said first trap,~~ and energizing a source of alternating
voltage operatively connected to said electrodes arranged generally transverse to
said flow of said target materials and said other materials in said second trap.

16. (Cancelled)